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Raptor Management Information System: Users' Guide

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INTRODUCTION

The Raptor Management Information System (RMIS) is a user supported information retrieval system dealing with raptor management, human impacts on raptor populations, and the mitigation of those impacts. It has been created in the California State Office of the U.S. Bureau of Land Management (BLM) (address below) in response to the land-use planning and environmental assessment needs of the Bureau and as an offshoot of related projects funded by the Edison Electric Institute and the Electric Power Research Institute.

The RMIS currently consists of 1) over 2,450 original papers, 2) about 15,000 notecards with key paragraphs from each paper sorted into 178 keyword categories, and 3) a computer program to retrieve partially annotated bibliographies by species (on all of the 2,450+ papers), keywords (on 1,500 of the 2,450+ papers), or both. New papers are continually acquired and referenced, indexed as to species and put into the computer, read and abstracted for notecards, and keyworded--in that order. Development is rapidly approaching the point at which only updating with newly published information will be required. Until that time, the species indices, notecard production, and keyword indices will lag slightly behind actual acquisition of papers. Also, while over 2,450 references are in the RMIS, annotations (abstracts) have been prepared and put into the computer only for about 35 percent of them. Work to annotate all references is continuing.

The RMIS has two special attributes that make it different from -- and more helpful than -- most other information systems. First, nearly all papers listed in RMIS computerized reports are on file at the California State Office of BLM. Photocopies of most of them can be obtained through the RMIS (see below for copy fees), though some papers which contain sensitive nest locations must be obtained from their authors.

Secondly, the RMIS is designed so that in most cases one need not obtain original papers to review the literature on a particular keyworded topic (e.g., impacts of aircraft on raptors) or on a keyword/species combination (e.g., impacts of aircraft on just the Peregrine Falcon). Rather, one can simply ask for notecard decks by keyword. Since notecards contain photocopied passages directly from the original papers, they are still primary sources of information, not paraphrased summaries. In addition, if one is interested in a keyword topic only as it relates to one or a few species, the notecards can easily be sorted by species, but only within each keyword category. (Note: Notecard decks are not available just by species. Notecards are sorted first according to keyword, with information by species scattered throughout all notecard decks. Thus, one must ask for species information always in conjunction with a keyword when using the notecard decks. You can, however, ask just for species when using the computer, e.g., all papers which deal with the Peregrine Falcon.)

One can best visualize the RMIS as a huge college term paper with the literature cited section fully developed (available as a computer printout) and the notecards ready to be rearranged in preparation for the start of writing -- on any one or all of 178 different keyworded topics. For any topic(s), the paper (report, environmental assessment, management plan, research proposal, decision document) could be written concerning one or a

few raptors or for all raptors in general. The original papers need not be acquired and reread, thus saving hundreds or thousands of hours of time representing thousands or tens of thousands of dollars, depending on the magnitude of the report being prepared.

SCOPE OF THE RMIS

The RMIS includes available management and impact information on all nocturnal and diurnal raptors and their habitats worldwide. Non-English literature is incorporated to the extent possible. The computerized annotated bibliographies requested by species do not include all available reports on the species. Rather, the RMIS gives only papers which have management or impact information on at least one raptor species.

However, species indices for the papers actually put into the system are not selective for management or impact information. Thus, a paper entirely on the clutch size or some other life history aspect of the Ferruginous Hawk would not make it into the system at all. But a paper concerning management of Ferruginous Hawks, which also mentions the Peregrine Falcon in a life history context, would not only get into the system but would also appear in both the Peregrine Falcon and Ferruginous Hawk printouts. Thus, to get around this compromise to overall system utility, it is often better to request a species printout in combination with a management technique, type of impact, or other keywords to guarantee that the annotated bibliography has the correct emphasis--unless one really wants all references to a particular species.

The list of keywords for which computer printouts and accompanying notecards can be retrieved from the RMIS is attached to this User Guide. Keywords and species can be requested individually or in any combination of up to 32 keywords and 32 species.

NON-BLM USE OF THE RMIS

The RMIS is a BLM program largely supported by contributed funds from the electric industry and other sources. It is designed to pay for itself through contributed funds and through user fees from other governmental agencies, industry, consultants, and other private individuals. Without this broad-based user support, the RMIS would have to be abandoned. Thus, all non-Bureau user requests for RMIS reports must be referred to Richard R. Olendorff, Bureau of Land Management, 2800 Cottage Way, Sacramento, California 95825 (or call FTS 468-4541; Commercial (916) 484-4541).

The original papers and notecard decks are available for use in the BLM California State Office free of charge, or computer printouts, copies of papers, and copies of notecard decks can be obtained in person or by mail according to the following fee schedule.

FEE SCHEDULE

Computer Printout Charges

Initial Set-up Fee per Report:	$20.00
Computer Log Time:	$0.50/min
Printout Charge:	$0.10/sheet
Operator's Time:	$20.00/hr
Programmer's Time:	$30.00/hr

Notecard Search Charges

Searcher's Time:	$20.00/hr
Copy Fees:	$0.25/page (if copied by BLM)
	$0.10/page (if copied by requester)

Charges for Other Services

Misc. Copying:	$0.25/page (if copied by BLM)
	$0.10/page (if copied by requester)
Packing and Mailing	$0.05/sheet

Under this fee schedule a printout of the 568 references and available annotations in the system concerning Golden Eagles would cost $51.00. A computer printout of references on the impacts of logging on all raptors (112 references) would be $31.20. A copy of the notecard deck on the impacts of logging on all raptors would cost an additional $30.75, primarily for copying at $0.25 per page. If the requester copied the notecard deck himself, the latter charge would be only $12.30 (123 pages at $0.10). Estimates of report costs are available upon request.

As each report is mailed, it will be accompanied by a statement of charges in triplicate. Upon receipt of that statement, payment in check or money order must be sent to:

U.S. Bureau of Land Management
2800 Cottage Way
Sacramento, CA 95825

Indicate on the check that it is payment for RMIS charges, and attach one copy of the Bureau's invoice.

RAPTOR MANAGEMENT INFORMATION SYSTEM
KEYWORD LIST
5/1/83

ADMCLO	Administrative Closure
ADVGRP	Advisory Groups
ANIMDC*	Animal Damage Control
ARTFED	Artificial Feeding
ARTINC	Artificial Incubation (of Thin-shelled Eggs)
ASTRNS	Artificial Structures -- Artificial Nests
ASTRBK	Artificial Structures -- Baskets
ASTRBR	Artificial Structures -- Burrows
ASTRGN	Artificial Structures -- General
ASTRLG	Artificial Structures -- Ledges
ASTRNB	Artificial Structures -- Nestboxes
ASTRPF	Artificial Structures -- Platforms
ATKHUM	Attacks on Humans
BEHMOD	Behavior Modification
BUFZON	Buffer Zones -- General
CABRMG*	Captive Breeding -- Management
COMPSA	Compensation
CRIHAB*	Critical Habitat
CRSFOS	Cross-fostering
EASMNT	Easements
ECONOM*	Economics
EGMNDC	Egg Manipulations -- Double Clutching
EGMNGN	Egg Manipulations -- General
EGMNIL	Egg Manipulations -- Indeterminate Laying
EGMNTR	Egg Manipulations -- Transfers (Including Augmentation)
ELCTRO	Electrocution (Not In Computer)
ENDACT*	Endangered Species Act
ENVIMP*	Environmental Impact Assessment
FLCNRY*	Falconry
FOLKLR	Folklore/Symbolism
FOSTER	Fostering
HABPRO	Habitat Protection -- General
HABITU*	Habituation
HACKNG	Hacking
HEVMET*	Heavy Metals
HISSIT	Historical Sites
IMPAGR	Impacts -- Agriculture
IMPAIR	Impacts -- Aircraft
IMPDAM	Impacts -- Dams and Reservoir Management
IMPDIS	Impacts -- Diseases and Parasites
IMPFEN	Impacts -- Fences
IMPFIR	Impacts -- Fire
IMPFOD*	Impacts -- Food Supply
IMPGEN	Impacts -- General
IMPGRZ	Impacts -- Grazing
IMPHAD	Impacts -- Habitat Destruction
IMPHDA	Impacts -- Human Disturbance -- Desertions

IMPHDB	Impacts -- Human Disturbance -- Behavior Modification
IMPHDC	Impacts -- Human Disturbance -- Casual
IMPHDD	Impacts -- Human Disturbance -- Distance Considerations
IMPHDE	Impacts -- Human Disturbance -- Eggs, Nestlings, Fledglings
IMPHDF	Impacts -- Human Disturbance -- Feeding Behavior
IMPHDG	Impacts -- Human Disturbance -- General
IMPHDN	Impacts -- Human Disturbance -- Nest Defense
IMPHDP	Impacts -- Human Disturbance -- Phenological Differences
IMPHDQ	Impacts -- Human Disturbance -- Physiological Parameters
IMPHDR	Impacts -- Human Disturbance -- Redirected Attacks
IMPHDS	Impacts -- Human Disturbance -- Study Methods
IMPHDT	Impacts -- Human Disturbance -- Tolerance of Birds
IMPLGD	Impacts -- Logging -- Documented
IMPLGP	Impacts -- Logging -- Potential
IMPMIL	Impacts -- Military
IMPMIN	Impacts -- Mining (including Oil & Gas Development)
IMPMIS	Impacts -- Miscellaneous
IMPMOR*	Impacts -- Mortality in General
IMPNOI	Impacts -- Noise
IMPPER	Impacts -- Persecution
IMPPHO	Impacts -- Photography
IMPPIP	Impacts -- Pipelines
IMPPOI	Impacts -- Poisoning
IMPPOW	Impacts -- Power Lines (see also Electrocution)
IMPPRD	Impacts -- Predation
IMPPUB	Impacts -- Public Observation
IMPRCB	Impacts -- Recreation -- Boating
IMPRCG	Impacts -- Recreation -- General
IMPRCH	Impacts -- Recreation -- Hiking and Camping
IMPRCI	Impacts -- Recreation -- Hunting and Fishing
IMPRCO	Impacts -- Recreation -- Off-road Vehicles
IMPRCR	Impacts -- Recreation -- Rock Climbing
IMPRCS*	Impacts -- Recreation -- Snowmobiling
IMPRES	Impacts -- Research
IMPROD	Impacts -- Roads and Railroads
IMPSHO	Impacts -- Shooting
IMPTRP	Impacts -- Trapping
IMPURB	Impacts -- Urbanization
IMPWEA	Impacts -- Weather
IMTING*	Imprinting
INDNUS*	Indian Use
INDTRS	Indicators
LNDACQ	Land Acquisition
LNDCON*	Land Conversion
LAWENF*	Law Enforcement
LEGREG*	Legislation and Regulations
LISSTS*	Listing Status
MANGEN	Management -- General (Not In Computer)
MANPVT	Management -- Private Lands
MCRSIT	Man-created Situations
MGRAGR	Management Recommendations -- Agriculture
MGRAIR	Management Recommendations -- Aircraft
MGRBFZ	Management Recommendations -- Buffer Zones

MGRDAM	Management Recommendations -- Dams and Reservoirs
MGRDIS	Management Recommendations -- Diseases and Parasites
MGRFEN	Management Recommendations -- Fences
MGRFIR	Management Recommendations -- Fire
MGRFOD	Management Recommendations -- Food Supply
MGRGEN	Management Recommendations -- General
MGRGRZ	Management Recommendations -- Grazing
MGRHAI	Management Recommendations -- Habitat Improvement
MGRHAP	Management Recommendations -- Habitat Protection
MGRHUD	Management Recommendations -- Human Disturbance
MGRLOG	Management Recommendations -- Logging
MGRMIL	Management Recommendations -- Military
MGRMIN	Management Recommendations -- Mining (Including Oil and Gas Development)
MGRMIS	Management Recommendations -- Miscellaneous
MGRNEI	Management Recommendations -- Nest Site Improvement
MGRNEP	Management Recommendations -- Nest Site Protection
MGRNOI	Management Recommendations -- Noise (Nothing In Computer)
MGRPER	Management Recommendations -- Persecution
MGRPES	Management Recommendations -- Pesticides
MGRPHO	Management Recommendations -- Photography
MGRPIP	Management Recommendations -- Pipelines
MGRPLN	Management Recommendations -- Planning & Coordination in General
MGRPOI	Management Recommendations -- Poisoning
MGRPOW	Management Recommendations -- Power Lines (see also Electrocution)
MGRPRD	Management Recommendations -- Predation
MGRPUB	Management Recommendations -- Public Observation
MGRRCB	Management Recommendations -- Recreation -- Boating
MGRRCG	Management Recommendations -- Recreation -- General
MGRRCH	Management Recommendations -- Recreation -- Hiking, Camping, Skiing
MGRRCI	Management Recommendations -- Recreation -- Hunting and Fishing
MGRRCO	Management Recommendations -- Recreation -- Off-road Vehicle
MGRRCR	Management Recommendations -- Recreation -- Rock Climbing
MGRRCS*	Management Recommendations -- Recreation -- Snowmobiling
MGRRES	Management Recommendations -- Research
MGRROD	Management Recommendations -- Roads and Railroads
MGRSHO	Management Recommendations -- Shooting
MGRTRP	Management Recommendations -- Trapping
MGRURB	Management Recommendations -- Urbanization
MMNSBR	Man-made Nest Sites -- Bridges
MMNSBU	Man-made Nest Sites -- Buildings
MMNSCM	Man-made Nest Sites -- Channel Markers, Duck Blinds, etc.
MMNSGN	Man-made Nest Sites -- General
MMNSMS	Man-made Nest Sites -- Miscellaneous
MMNSQY	Man-made Nest Sites -- Quarries
MMNSUS	Man-made Nest Sites -- Utility Structures
NSCONF	Nest Site Confidentiality
NSMOVE*	Nest Moving
PERMAN	Perch Management

PESTIC*	Pesticides
PHILOP*	Philopatry
POPREC	Population Recovery
PUBATT	Public Attitudes
PUBEDU	Public Education
PAPORG*	Raptor Organizations
RECPLN	Recovery Plans (Teams)
RGEGEN	Refuges -- General and Miscellaneous
RGEMGA	Refuges -- Management Areas
RGEMIL	Refuges -- Military Lands
RGENAP	Refuges -- National Parks
RGENAR	Refuges -- National Wildlife Refuges
RGENRA	Refuges -- Natural Areas
RGESAN	Refuges -- Sanctuaries
RGEWAR	Refuges -- Wilderness Areas
REHABN*	Rehabilitation
RENTRO	Reintroduction -- General
REPMAT	Replacement of Mates
RODCON	Rodent Control by Raptors
SHTSTP	Short-stopping
SITTEN	Site Tenacity
SNGMGT*	Snag Management
SURVEI	Surveillance
SURVRT	Survival Rates
TRNSLO	Translocation
ZOOGAR*	Zoological Gardens

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* An asterisk indicates that a particular keyword is weakly represented in the RMIS, primarily because that particular subject has an extensive literature of its own (e.g., pesticides, falconry, rehabilitation, etc.). To date, emphasis has been placed on raptor management and human impacts on raptors. This asterisk is not part of the keyword abbreviation for computer purposes.

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